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NOTICE OF ALLOWANCE AND FEE(S) DUE

26619

7590

04/19/2004

EXAMINER

DELTAGEN, INC.

740 BAY ROAD

REDWOOK CITY, CA 94063

SULLIVAN, DANIEL M

ART UNIT

PAPER NUMBER

1636

DATE MAILED: 04/19/2004

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/904,180	07/11/2001	Keith D. Allen	R-477	1187

TITLE OF INVENTION: TRANSGENIC MICE CONTAINING STEFIN HOMOLOG PROTEASE INHIBITOR GENE DISRUPTIONS

1	APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
	nonnrovisional	YES	\$665	\$300	\$965	07/19/2004

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown

B. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.

Applicant claims SMALL ENTITY status. See 37 CFR 1.27.

II. PART B - FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B - Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

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		with any corrections or use Block 1)	Fee(s) Transmittal. The papers. Each additions	mailing can only be used fis certificate cannot be used all paper, such as an assignme of mailing or transmission.	for any other accompanying	
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740 BAY ROAD REDWOOK CITY	, CA 94063		States Postal Service addressed to the Mai transmitted to the USF	nis Fee(s) Transmittal is beir with sufficient postage for fill I Stop ISSUE FEE address TO, on the date indicated be	rst class mail in an envelop above, or being facsimil low.	
				,	(Depositor's name)	
					(Signature)	
					(Date)	
APPLICATION NO.	FILING DATE	FIRST NAM	MED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/904,180	07/11/2001	Keit	h D. Allen	R-477	1187	
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APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE	
nonprovisional	YES	\$665	\$300	\$965	07/19/2004	
EXAMINER		ART UNIT	CLASS-SUBCLASS]		
SULLIVAN,	, DANIEL M	1636	800-018000			
CFR 1.363). Change of corresponde Address form PTO/SB/12 "Fee Address" indicati PTO/SB/47; Rev 03-02 (Number is required.	on (or "Fee Address" Indicat or more recent) attached. Use	correspondence agents firm (hagent) attorner will be	of up to 3 registered patent a OR, alternatively, (2) the name aving as a member a registered and the names of up to 2 regist ys or agents. If no name is listed printed.	g on the patent front page, list (1) the to 3 registered patent attorneys or lternatively, (2) the name of a single as a member a registered attorney or e names of up to 2 registered patent agents. If no name is listed, no name 1.		
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NOTE; The Issue Fee and other than the applicant; interest as shown by the re-	d Publication Fee (if require a registered attorney or age cords of the United States Pa	ed) will not be accepted from ent; or the assignee or other tent and Trademark Office.	m anyone r party in			
This collection of informa obtain or retain a benefit application. Confidentiality estimated to take 12 minul completed application for case. Any comments on suggestions for reducing t Patent and Trademark (22212, 1450, DOI 100.)	tion is required by 37 CFR by the public which is to fit y is governed by 35 U.S.C. It less to complete, including gam to the USPTO. Time will the amount of time you public by U.S.C. Department of the complete of the compl	1.311. The information is rele (and by the USPTO to pp 22 and 37 CFR 1.14. This countering, preparing, and subnivary depending upon the equire to complete this for the Chief Information Off Commerce, Alexandria, TED FORMS TO THIS A	equired to rocess) an illection is nitting the individual mm and/or ficer, U.S. Virginia			

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	·			1636	
			DATE MAILED: 04/19/2004		

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 0 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 0 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (703) 305-1383. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

· · · · · · · · · · · · · · · · · · ·	Application No.	Applicant(s)			
	09/904,180	ALLEN, KEITH D.			
Notice of Allowability	Examiner	Art Unit			
	Daniel M Sullivan	1636			
The MAILING DATE of this communication apperall claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI	(OR REMAINS) CLOSED in to or other appropriate communing GHTS. This application is substand MPEP 1308.	his application. If not included ication will be mailed in due course. THIS bject to withdrawal from issue at the initiative			
1. This communication is responsive to the Amendment and	Request for Continued Exami	nation filed 9 January 2004.			
2. The allowed claim(s) is/are <u>1-5,8-11,20,22 and 24</u> .					
3. \boxtimes The drawings filed on <u>28 October 2002</u> are accepted by th	e Examiner.				
 4. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some* c) None of the: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 					
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	IENT of this application.				
5. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give					
6. CORRECTED DRAWINGS (as "replacement sheets") must					
(a) including changes required by the Notice of Draftspers	_	(PTO-948) attached			
 1) ☐ hereto or 2) ☐ to Paper No./Mail Date (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date 					
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).					
7. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.					
Attachment(s) 1. Notice of References Cited (PTO-892) 2. Notice of Draftperson's Patent Drawing Review (PTO-948) 3. Information Disclosure Statements (PTO-1449 or PTO/SB/C Paper No./Mail Date	6. ☐ Interview Sur Paper No./M	rmal Patent Application (PTO-152) nmary (PTO-413), lail Date mendment/Comment			
 Examiner's Comment Regarding Requirement for Deposit of Biological Material 	8. ☐ Examiner's S 9. ☐ Other	tatement of Reasons for Allowance			
		Anne-Marie Jalk ANNE-MARIE FALK, PH.D ***********************************			

U.S. Patent and Trademark Office PTOL-37 (Rev. 1-04) Application/Control Number: 09/904,180

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EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Robert Driscoll on 1 April 2004.

The application has been amended as follows:

Claims 9 and 10 have been replaced with the following amended claims:

- 9. A cell derived isolated from the transgenic mouse of claim 8.
- 10. A method of producing a transgenic mouse comprising a genome comprising a disruption in an endogenous stefin homolog gene comprising SEQ ID NO: 1, the method comprising:
 - (a) introducing the targeting construct of claim 1 into a mouse embryonic stem cell;
 - (b) selecting a cell which has undergone homologous recombination:
 - (c) introducing the cell into a blastocyst;
 - (e)(d) implanting the resulting blastocyst into a pseudopregnant mouse, wherein said pseudopregnant mouse gives birth to a chimeric mouse; and
 - (d)(e) breeding the chimeric mouse to produce the transgenic mouse wherein where the disruption is homozygous, the transgenic mouse lacks production of functional protein encoded by the stefin homolog gene and exhibits, relative to a wild-type mouse, a

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phenotype selected from the group consisting of: increased activity, schizophrenic behavior, and decreased propensity for despair or depression.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Daniel M Sullivan whose telephone number is 571-272-0779. The examiner can normally be reached on Monday through Thursday 6:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Remy Yucel, Ph.D. can be reached on 571-272-0781. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

DMS

Anne-Marie Jalk

AMNE-MARIE FALK, PH.D

PRIMARY EXAMINER